PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Form PCT/ISA/220							
X-16339 ACTION as well as, where applicable, item 5 below.							
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)					
PCT/US2004/025604	02/09/2004	05/09/2003					
Applicant							
ELI LILLY AND COMPANY							
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Searchin ransmitted to the International Bureau.	g Authority and is transmitted to the applicant					
This International Search Report consists	s of a total of sheets.						
·	y a copy of each prior art document cited						
1. Basis of the report	international search was carried out on t	he basis of the international application in the					
language in which it was filed, un	lless otherwise indicated under this item.	ne basis of the international application in the					
The international this Authority (Ru		translation of the international application furnished to					
		losed in the International application, see Box No. I.					
2. X Certain claims were fou	and unsearchable (See Box II).						
3. Unity of invention is lac	king (see Box III).						
3. Unity of invention is inc	Ming (000 Dox iii).	·					
4. With regard to the title,							
X the text is approved as su	ubmitted by the applicant.						
the text has been establis	shed by this Authority to read as follows:						
• • •							
	·						
5. With regard to the abstract,							
X the text is approved as su	bmitted by the applicant.	*					
the text has been establis may, within one month fro	hed, according to Rule 38.2(b), by this Ai im the date of mailing of this international	uthority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the drawings to be p	ublished with the abstract is Figure No						
as suggested by t	he applicant.						
as selected by this Authority, because the applicant failed to suggest a figure.							
as selected by this Authority, because this figure better characterizes the Invention.							
b. X none of the figures is to be	e published with the abstract.						
orm PCT/ISA/210 (first sheet) (January 2004	4) '						

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/025604

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: a. type of material X a sequence listing b. tormat of material X in written format X in or incomputer readable form C. time of filing/furnishing X contained in the International application as filed filed together with the international application in computer readable form X turnished subsequently to this Authority for the purpose of search In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were turnished. 3. Additional comments:		b. form	table(s) in a sequent table(s) in written in computer of filing/fumicontained filed toge furnished addition, in the furnished, the oplication as for the contained addition as for the contained toge furnished, the oplication as for the contained addition as for the contained toge furnished, the oplication as for the contained to	onal search nce listing related to th in format after readab shing d in the inte ther with th subseque he case the required	he sequen le form emational ne international ntly to this at more this statement	application application application application application and application application application application application application application	n as filed ication in confor the purpor	nputer readable for search	orm sting and/or	table relating th	ereto has be	en filed
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INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/025604

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K16/28 C12 C12N15/68 C12N5/10 A61K39/395 C12N15/13 C07K14/60 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system tollowed by classification symbols) C07K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal. Sequence Search, BIOSIS, EMBASE, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. MURAKAMI N ET AL: "Role for central X. 1 - 39ghrelin in food intake and secretion profile of stomach ghrelin in rats! JOURNAL OF ENDOCRINOLOGY, BRISTOL, GB, vol. 174, no. 2, August 2002 (2002-08), pages 283-288, XP009022559 ISSN: 0022-0795 cited in the application abstract figure 1 EP 1 197 496 A (KANGAWA, KENJI) X 1-36,3917 April 2002 (2002-04-17) 40 cited in the application paragraph '0226! example 16 claims 46,48 Y 37,38 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents tater document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention *E* earlier document but published on or after the international document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another cliation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. O' document referring to an oral disclosure, use, exhibition or other means document published prior to the International filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19/04/2005 1 April 2005

Authorized officer

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/025604

:.(Continui	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
ategory •	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	60 01 107225 A 1517 1711 V 111 0011		
(WO 01/87335 A (ELI LILLY AND COMPANY;	_	39
	BRYANT, HENRY, UHLMAN; HEIMAN, MARK,		
	LOUIS) 22 November 2001 (2001-11-22)		
	cited in the application		•
	claims 1,7,13-17	•	27.20
' '			37,38
	HOSODA HIROSHI ET AL: "Ghrelin and		1-36,39,
· · · · · · · · · · · · · · · · · · ·	des-acyl ghrelin: Two major forms of rat		40
	ghrelin peptide in gastrointestinal		
. [tissue"	.[•
. 1	BIOCHEMICAL AND BIOPHYSICAL RESEARCH	. 1	•
	COMMUNICATIONS,	·	
	vol. 279, no. 3,		•
ļ	29 December 2000 (2000-12-29), pages	.	
	909-913, XP002322694		·. ·
- 1	ISSN: 0006-291X	{	•
. i	abstract	. (
1	page 909, right-hand column, paragraph 3	ľ	
	figure 1		37 20
Į		j	37,38
,	ARIYASU H ET AL: "Stomach is a major	}	1-36,39,
ļ	source of circulating ghrelin, and feeding		40
- 1	state determines plasma ghrelin-like	ſ	. 79
1.	immunoreactivity levels in humans"	·	
	ENDOCRINOLOGY, BALTIMORE, MD, US,	ł	
- 1	vol. 86, no. 10, October 2001 (2001-10),		
١.	pages 4753-4758, XP002223632		
- 1	ISSN: 0013-7227	. 1	
	page 4754, right-hand column, paragraph 1		
1			37,38
İ		Í	
1	DATABASE Geneseq 'Online!	<u> </u>	1,4,5,
ŀ	13 August 2001 (2001-08-13), "Murine		25-28
· ·	anti-PI-3,4-P2 antibody light chain		4
	variable region."	1	•
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ĺ	GSN: AAB97194		
1	Database accession no. AAB97194	1	
	the whole document	.	
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Į	DATABASE Geneseq 'Online!		1,4,5,
	13 August 2001 (2001-08-13), "Murine	1	25-28
	anti-PI-3,4-P2 Ig light chain CDR1."	·]	
	XP002322696		• •
	retrieved from EBI accession no.		
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INTERNATIONAL SEARCH REPORT

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	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.
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А	HOLT L J ET AL: "Domain antibodies: proteins for therapy" TRENDS IN BIOTECHNOLOGY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 21, no. 11, November 2003 (2003-11), pages 484-490, XP004467495 ISSN: 0167-7799		1-40
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	page 485, left-hand column, paragraph 1		*
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US2004/025604

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	mational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 37, 38 because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 37 and 38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
. ,	
з. [Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of Irrst sheet)
This inte	rnational Searching Authority found multiple Inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
	Sedicitatie dans.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; It is covered by claims Nos.:
Remark c	The additional search fees were accompanied by the applicant's protest.
•	No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/US2004/025604

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1197496		17-04-2002	AU BR CA EP JP CN WO JP	6023100 A 0012688 A 2380058 A1 1197496 A1 3471780 B2 1362968 A 0107475 A1 2004000251 A	13-02-2001 16-04-2002 01-02-2001 17-04-2002 02-12-2003 07-08-2002 01-02-2001 08-01-2004
WO 0187335	A	22-11-2001	AU EP WO	5905601 A 1286697 A2 0187335 A2	26-11-2001 05-03-2003 22-11-2001